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Published on SBIR.gov (<https://www.sbir.gov>)

1. [OSD153-001: System Architecture Recovery and Analysis \(SARA\)](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information System The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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2. [OSD153-002: Cyber Deception for Network Defense](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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3. [OSD153-003: Next-Generation Secured Mobile Devices for Mobile, Tactical Environments](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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4. [OSD153-004: Moving Target Defense](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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5. [OSD153-005: High-Assurance Cyber-Physical Systems](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: To define threat models; develop and prototype novel, resilient architectures, tools, and techniques to mitigate threats to cyber-physical system. To develop modeling and simulation tools that consider the safety and correctness constraints of the physical systems and the interaction with the digital components. DESCRIPTION: Cyber-physic ...

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6. [GENSETS: GENerators for Small Electrical and Thermal Systems \(GENSETS\)](#)

Release Date: 07-16-2015 Open Date: 07-16-2015 Due Date: 08-17-2015 Close Date: 08-17-2015

PLEASE NOTE: A prior Letter of Intent is not required for this specific FOA from DOE-ARPA-E. SUMMARY The GENSETS Program - GENerators for Small Electrical and Thermal Systems - seeks to fund the development of potentially disruptive generator technologies that will enable widespread deployment of residential Combined Heat and Power (CHP) systems. Here, CHP is defined as the distributed generat ...

SBIRSTTR Department of Energy ARPA-E

7. [OSD14.1-AU1: Biometrics for Human-machine Team Feedback in Autonomous Systems](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop and use biometrics that provides feedback about the status of human-machine team in autonomous systems. DESCRIPTION: Intense workload and short deadlines place a great deal of stress on warfighters applying computer systems to complete their mission. Biometric techniques show promise for detecting variatio ...

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8. [OSD14.1-AU2: Evaluating the Performance and Progress of Learning-enabled Systems](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop methodology to evaluate and measure the performance and progress for learning enabled systems. DESCRIPTION: A long term goal of machine learning is to develop systems that learn complex behaviors with minimal human oversight. However, future systems that incorporate learning strategies will not necessarily ...

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9. [OSD14.1-AU3: Evaluating Mixed Human/Robot Team Performance](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: Develop methodology to evaluate mixed human/robot team performance DESCRIPTION: Introducing robotic assets to a military or civilian unit should increase the level of performance for the team. We evaluate human teams by scoring their performance on specific tasks; they can be a single score for the team, or an aggr ...

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10. [OSD14.1-AU4: Safety Testing for Autonomous Systems in Simulation](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

This topic is supported under National Robotics Initiatives (NRI). OBJECTIVE: The Army is interested in adding autonomy to its vehicle convoys [1], but how can we certify that these autonomous algorithms are safe? Currently, live testing of full vehicle systems is the only acceptable method, but even after hundreds of hours of successful live testing, a single hidden failure point in the algor ...

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